

Automotive Engineering Solutions

- Global Product Experience
- End to End Solutions
- Optimized Cost
- Flexible Business Model
- Domain Expertise

2+
Decades of
Experience



Automotive Portfolio

Exteriors

BIW, Bumpers, Doors and Closures,
Mirrors, Spoilers, Fenders, Bonnet, Boot Lid,
Tank Cover Module, Roof System, Grills,
Pillars, Lighting & Lift Gates

Engine System, Powertrain, Clutch

Pipes, Manifold, Header,
Turbo-back, Catalytic Converter,
Tailpipe and Exhaust, Cooling
Systems

Interiors & Seating

Instrument Panel, Seat, Trims,
Glove Box, Air Vents, Consoles,
HVAC, Headliners & Steering Controls

Expertise

Steering & Suspension

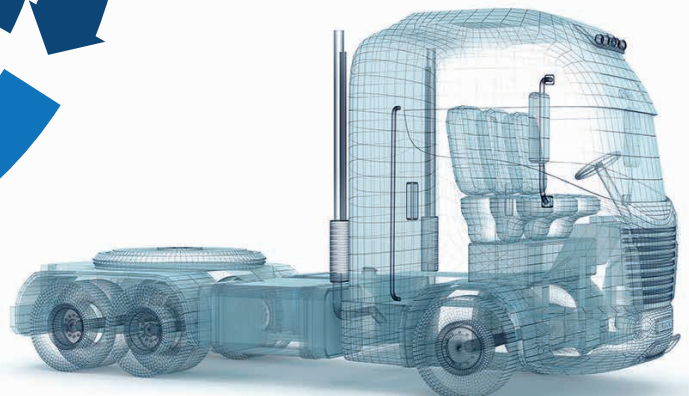
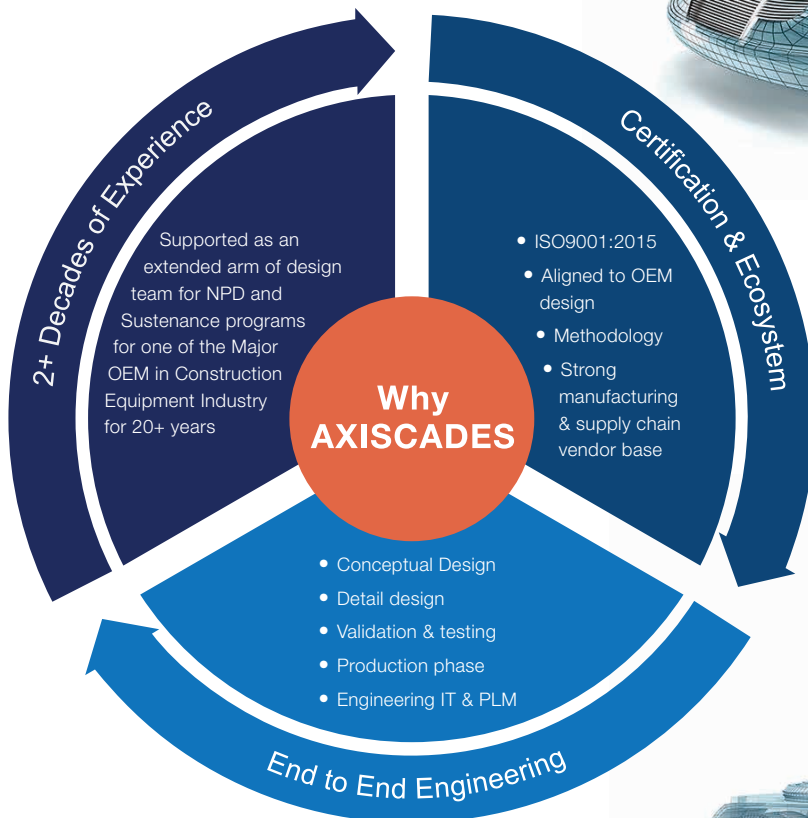
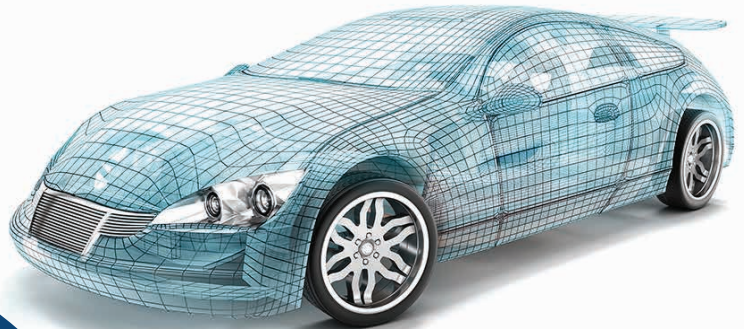
Manual & Power Steering,
Suspension Analysis, Stability &
NVH

Chassis, Axle, Brake

Ladder Type Chassis,
Monocoque Chassis,
Power & Driven Axle,
Disc & Drum Brake Packaging,
Manual & Power Steering,
Front & Rear Suspension

Electrical & Embedded

Wiring Harness, Electronics & ECU



Expertise Delivered



Developed COWL chassis, within 24 weeks, for localization of truck model



Developed sleeper cabin from day cabin



Reduced weight of tipper body from 3000kg to 2250kg (25%)



Developed a new design in LCV segment for localization of Indian market



Reduced part count, by 20%, through Standardization & Variety Reduction



NVH @ driver point reduced from 64 dB to 59 dB @ 70Hz and 59 dB to 54 dB @ 180 Hz



Competency Overview

System Engineering
DFMA / DFMEA
Design Automation
Configuration & Assembly
Continuous Product Development
Value Engineering

Product Design
& Definition

Engineering
Analysis,
Simulation &
Certification

Analysis (Static, Linear,
Non-Linear, Dynamic, Fatigue,
Durability, Impact, CFD)
Design Verification
Homologation
Certification

Chassis/Axle/Brake
Engine system/powertrain/Clutch
Steering & Suspension
Exteriors
Interiors and Seatings

Vehicle
Engineering

Mechanical &
Electrical
System
Installation

Harness Installation
System Integration
Mechanical / Electrical Routings
Tubing & Piping
Hydraulics & Drivelines
Large Fabrications

Hardware Engineering
Firmware Development
Software Design & Integration
Pre-compliance Testing
Environmental Testing
Product Certification
Benchmarking
Manufacturing Support

Electronics
Design

Manufacturing
Engineering
Services

Digital Manufacturing
Prototyping
Tool Design
CNC Programming
Jigs, Fixtures, etc

VAVE
Localization
Reliability & Life Extension
Failure and Fatigue Analysis
Warranty Analysis

After Sales
Product
Support Services

Product
Lifecycle
Management

Engineering Software Development
Teamcenter Customization
Legacy Application Migration
Support for Digital Initiatives

Manuals (Maintenance, Service,
Operator, Installation &
Setup Guides)
AMM, IPC, CMM, IPL, etc.

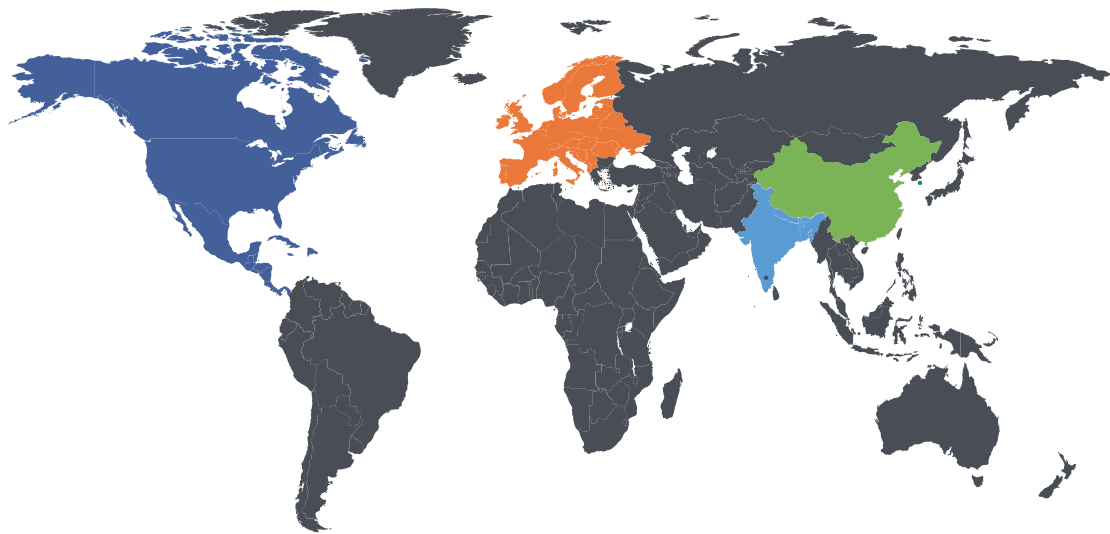
Technical
Publications



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